

YATAGAI et al
Serial No. 10/815,927Atty Dkt: 4059-21 MAR 21 2006
Art Unit: 3611**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)
16. (Cancelled)
17. (Cancelled)
18. (Cancelled)
19. (Cancelled)
20. (Cancelled)
21. (Cancelled)
22. (Cancelled)

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23. (Currently Amended) A snowmobile comprising:
a body frame having a width dimension which is essentially perpendicular to a direction of travel;
a ski-runner attached to the body frame;
a crawler connected to the body frame;
a four-cycle engine which drives the crawler, the engine having a crankcase which is substantially parallel to the width dimension of the body frame, the engine being tilted forward in the direction of travel;
a supercharger connected to compress intake air for the engine;
an air cleaner which introduces air into the supercharger;
an intercooler which receives and cools compressed air delivered by the supercharger; and
an intake path for supplying air to cylinders of the engine.

24. (Previously Presented) The snowmobile of claim 23, further comprising an exhaust manifold for the engine, and wherein the exhaust manifold and the supercharger are situated on a front side of the engine relative to the direction of travel.

25. (Previously Presented) The snowmobile of claim 23, further comprising:
a windshield formed on the body frame;
an intake manifold for the engine arranged close to the windshield.

26. (Previously Presented) The snowmobile of claim 25, wherein the intake manifold is arranged vertically beneath the windshield.

27. (CANCELLED)

28. (Previously Presented) The snowmobile of claim 23, further comprising a drysump oil supplying system that supplies the engine with engine oil.

29. (Previously Presented) The snowmobile of claim 28, wherein the body frame

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comprises a front cover and a track housing, wherein a front suspension supports the ski-runner and is attached to the body frame at a front suspension attachment point, and wherein the drysump oil supplying system comprises:

an oil tank disposed inside an engine compartment that is enclosed by the front cover;

an oil pan arranged between the front suspension attachment point and the track housing.

30. (Previously Presented) The snowmobile of claim 23, wherein the body frame comprises a front cover, and further comprising:

an exhaust manifold extending frontward from the engine in an engine compartment that is enclosed by the front cover; and

wherein the supercharger is connected to the exhaust manifold.

31. (Currently Amended) The snowmobile of claim 23, wherein the engine has an engine body and an intake path, and wherein the intake path comprises an intake manifold connected to an outlet side of the supercharger, and wherein the intake path is situated on an upper rear side of the engine body and the supercharge is situated in front of the engine body relative to the direction of travel.

32. (Currently Amended) The snowmobile of claim 31, ~~further comprising~~ wherein the air cleaner is situated in front of the supercharger relative to the direction of travel.

33. (Cancelled)

34. (Previously Presented) The snowmobile of claim 23, further comprising a windshield formed on the body frame, and wherein the intake path is arranged vertically beneath the windshield.

35. (Previously Presented) The snowmobile of claim 23, wherein the engine has a crankcase which is substantially parallel to the width dimension of the body frame.

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36. (Currently Amended) A snowmobile comprising:
a body frame;
a ski-runner attached to the body frame;
a crawler connected to the body frame;
a four-cycle engine which drives the crawler;
a supercharger connected to compress intake air for the engine; [and]
a drysump oil supplying system that supplies the engine with engine oil;
an air cleaner which introduces air into the supercharger;
an intercooler which receives and cools compressed air delivered by the
supercharger; and
an intake path for supplying air to cylinders of the engine.

37. (Previously Presented) The snowmobile of claim 36, further comprising an exhaust manifold for the engine, and wherein the exhaust manifold and the supercharger are situated on a front side of the engine relative to a direction of travel.

38. (Previously Presented) The snowmobile of claim 36, further comprising:
a windshield formed on the body frame;
an intake manifold for the engine arranged close to the windshield.

39. (Previously Presented) The snowmobile of claim 38, wherein the intake manifold is arranged vertically beneath the windshield.

40. (Previously Presented) The snowmobile of claim 36, wherein the body frame comprises a front cover and a track housing, wherein a front suspension supports the ski-runner and is attached to the body frame at a front suspension attachment point, and wherein the drysump oil supplying system comprises:

an oil tank disposed inside an engine compartment that is enclosed by the front cover;

an oil pan arranged between the front suspension attachment point and the track housing.

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41. (Previously Presented) The snowmobile of claim 36, wherein the body frame comprises a front cover, and further comprising:

an exhaust manifold extending frontward from the engine in an engine compartment that is enclosed by the front cover; and

wherein the supercharger is connected to the exhaust manifold.

42. (Currently Amended) The snowmobile of claim 36, wherein the engine has an engine body and an intake path, and wherein the intake path comprises an intake manifold connected to an outlet side of the supercharger, and wherein the intake path is situated on an upper rear side of the engine body and the supercharger is situated in front of the engine body relative to the direction of travel.

43. (Previously Presented) The snowmobile of claim 36, wherein the engine has a crankcase which is substantially parallel to the width dimension of the body frame.

44. (Currently Amended) A snowmobile comprising:

- a body frame having a width dimension which is essentially perpendicular to a direction of travel;
- a ski-runner attached to the body frame;
- a crawler connected to the body frame;
- a four-cycle engine which drives the crawler, the engine having a crankcase which is substantially parallel to the width dimension of the body frame, the engine being tilted forward in the direction of travel;
- a supercharger connected to compress intake air for the engine; [and]
- a drysump oil supplying system that supplies the engine with engine oil;
- an air cleaner which introduces air into the supercharger;
- an intercooler which receives and cools compressed air delivered by the supercharger; and
- an intake path for supplying air to cylinders of the engine.

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45. (Previously Presented) The snowmobile of claim 44, further comprising an exhaust manifold for the engine, and wherein the exhaust manifold and the supercharger are situated on a front side of the engine relative to the direction of travel.

46. (Previously Presented) The snowmobile of claim 44, further comprising:
a windshield formed on the body frame;
an intake manifold for the engine arranged close to the windshield.

47. (Previously Presented) The snowmobile of claim 46, wherein the intake manifold is arranged vertically beneath the windshield.

48. (Previously Presented) The snowmobile of claim 44, wherein the body frame comprises a front cover and a track housing, wherein a front suspension supports the ski-runner and is attached to the body frame at a front suspension attachment point, and wherein the drysump oil supplying system comprises:

an oil tank disposed inside an engine compartment that is enclosed by the front cover;

an oil pan arranged between the front suspension attachment point and the track housing.

49. (CANCELLED)

50. (Previously Presented) The snowmobile of claim 33, wherein the supercharger is situated in front of an engine body relative to the direction of travel, wherein the intercooler is situated at a bottom rear of the engine, wherein a first end of the supercharger is connected to receive air from the air cleaner, wherein a second end of the supercharger is connected to the intercooler by an L-shaped intake passage, wherein the L-shaped intake passage is bent along a side face of the engine and extends rearwardly and downwardly to the intercooler, and wherein the intake path for supplying air to the cylinders of the engine extends upwards approximately vertically.

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51. (Previously Presented) The snowmobile of claim 36, further comprising an air cleaner situated in front of the supercharger relative to a direction of travel.

52. (Currently Amended) The snowmobile of claim 36, further comprising:
~~an air cleaner which introduces air into the supercharger;~~
an intercooler which receives and cools compressed air delivered by the supercharger;
an intake path for supplying air to cylinders of the engine.

53. (Previously Presented) The snowmobile of claim 36, wherein the supercharger is situated in front of an engine body relative to a direction of travel, wherein the intercooler is situated at a bottom rear of the engine, wherein a first end of the supercharger is connected to receive air from the air cleaner, wherein a second end of the supercharger is connected to the intercooler by an L-shaped intake passage, wherein the L-shaped intake passage is bent along a side face of the engine and extends rearwardly and downwardly to the intercooler, and wherein the intake path for supplying air to the cylinders of the engine extends upwards approximately vertically.